



## IN-LINE INJECTION PUMPS

Testing and setting values

Assembly no.:  
9 400 365 607

Pump: FA-PE 6/10/150/300 RS 15-1

Customer: Deutz-MWM

Governor:

Engine: TBD 604 L6

Fuel-supply p:

Power : kw( Bhp )

Injector:

Applic.:

Perm.pres.: 1.5 bar NHA: 0 681 443 022

Press.l: 1 680 750 027

Test oil:

Perm.pos: PS Open.p.: 172 + 3 bar

(mm) 8 x 2 x 1500

ISO 4113

When control rack on rear of pump:

Overflow valve:

P.S. 1 left, P.S. 2 right

1 417 413 000

40 +5° C

Test pump as per AP LPC 4.1 + 0.1 mm at CRT = 20 mm  
DOR clock looking at drive/SD diff. betw. CRT = +0.5 mm u.CRT<sub>max</sub> °CS  
wise =

Cylinder 1 on drive side

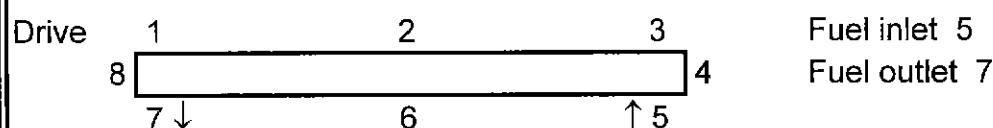
Cam sequence: 1 - 5 - 3 - 6 - 2 - 4

Cam spacing: 0 60 120 180 240 300 °CS

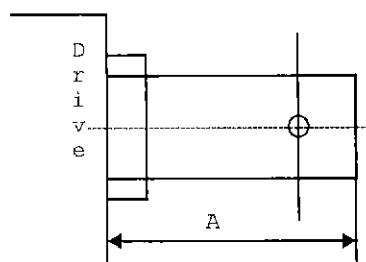
FB mark : Cyl. no. Tol.f.cam spacing: ± 0.5 °CS

Testoil-ISO 4113

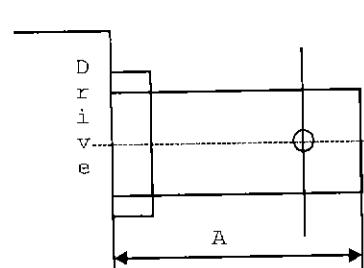
	Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spred	
1.	Basic setting	750	13	493 - 507	8	489 - 511	12
2.	Basic setting	900	13	511 - 539	15	502 - 548	23
3.	Basic setting	900	16	622 - 658	20	613 - 667	30
4.	Basic setting	300	5	51 - 79	15	44 - 86	23
5.	Del.qty. profile						
6.	Del.qty. profile						



Other test operations: CRT0 = defined by marking the control rack with a locating pin

Addit. work steps : Projection of control rack on drive side  
when set to equal value  
A = approx. 39 mm

- Enter measured value in test sheet
- Enter projection when switched off (CRT = 0)

 <b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values			Assembly no.: 9 400 365 012		
Pump:	FA-PE 12/10/150/900 LS 16-1			Customer: Deutz-MWM		
Governor:				Engine: TBD 604 V12		
Fuel-supply p:				Power : kw( Bhp )		
Injector:				Applik.:		
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:			
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113			
When control rack on rear of pump: P.S. 1 left, P.S. 2 right			Overflow valve: 1 417 413 000	40 +5° C		
Test pump as per AP			LPC 4.1 + 0.1 mm at CRT = 20 mm	°CS		
DOR clock	looking at drive/SD diff. betw. CRT =	+0.5 mm u.CRT <sub>max</sub>				
wise		=				
Cylinder 1 on drive side						
Cam sequence: 1 - 12 - 8 - 5 - 3 - 10 - 9 - 4 - 2 - 11 - 7 - 6						
Cam spacing: 0 45 60 105 120 165 180 225 240 285 300 345	°CS					
FB mark : Cyl. no.	Tol.f.cam spacing: ± 0.5 °CS					
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	493 - 507	8	489 - 511	12
2. Basic setting	900	13	511 - 539	15	502 - 548	23
3. Basic setting	900	16	622 - 658	20	613 - 667	30
4. Basic setting	300	5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 ↓	↓ 2	↑ 3	Fuel inlet 1 + 2			
8			4	Fuel outlet 3		
7	6	5				
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 608				
Pump:	FA-PE 6/10/150/100 LS 17-1	Customer: Deutz-MWM				
Governor:		Engine: TBD 603 V12				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applik.:				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027				
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Test oil: ISO 4113				
Test pump as per AP		LPC 4.1 + 0.1 mm at CRT = 20 mm				
DOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub> °CS				
Cylinder 1 on drive side		=				
Cam sequence: 1 - 5 - 3 - 4 - 2 - 6						
Cam spacing: 0 15 120 135 240 255		°CS				
FB mark : Cyl. no.		Tol.f.cam spacing: ± 0.5 °CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	493 - 507	8	489 - 511	12
2. Basic setting	900	13	511 - 539	15	502 - 548	23
3. Basic setting	900	16	622 - 658	20	613 - 667	30
4. Basic setting	300	5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 ↑	2	↓ 3		Fuel inlet 3		
8	7	6	4	Fuel outlet 1		
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 609				
Pump:	FA-PE 6/10/150/100 LS 18-1	Customer: Deutz-MWM				
Governor:		Engine: TBD 603 V12				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applik.:				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l.: 1 680 750 027				
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Test oil: ISO 4113				
Overflow valve: 1 417 413 000		40 +5° C				
Test pump as per AP		LPC 4.1 + 0.1 mm at CRT = 20 mm				
DOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub> °CS				
Cylinder 1 on drive side		=				
Cam sequence: 1 - 6 - 2 - 4 - 3 - 5						
Cam spacing: 0 15 120 135 240 255		°CS				
FB mark : Cyl. no.		Tol.f.cam spacing: ± 0.5 °CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	493 - 507	8	489 - 511	12
2. Basic setting	900	13	511 - 539	15	502 - 548	23
3. Basic setting	900	16	622 - 658	20	613 - 667	30
4. Basic setting	300	5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↑	2	↓ 3	Fuel inlet 3		
	8	7	6	Fuel outlet 1		
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				



## IN-LINE INJECTION PUMPS

Testing and setting values

Assembly no.:

9 400 365 815

Pump: FA-PE 8/10/160/900 LS 39

Customer: Deutz-MWM

Governor:

Engine: TBD 604 BV8

Fuel-supply p: 0 440 002 031

Power : 960 kw( Bhp )

Injector:

Applic.: Lokom./Katamaran

Perm.pres.: 1.5 bar NHA: 0 681 443 022

Press.l: 1 680 750 027

Test oil:

Perm.pos: PS Open.p.: 172 + 3 bar

(mm) 8 x 2 x 1500

ISO 4113

When control rack on rear of pump:

Overflow valve:

P.S. 1 left, P.S. 2 right

1 417 413 000

40 +5° C

Test pump as per AP LPC 4.1 + 0.1 mm at CRT = 20 mm  
DOR clock looking at drive/SD diff. betw. CRT = +0.5 mm u.CRT<sub>max</sub> °CS  
wise \_\_\_\_\_ = \_\_\_\_\_

Cylinder 1 on drive side

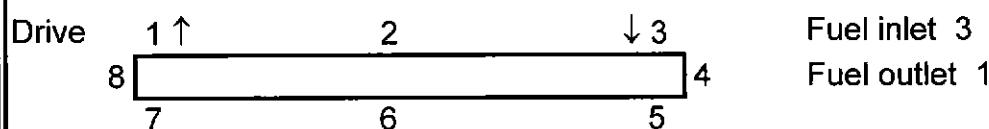
Cam sequence: 1 - 5 - 4 - 2 - 6 - 3 - 7 - 8

Cam spacing: 0 45 90 135 180 225 270 315 °CS

FB mark : Cyl. no. Tol.f.cam spacing: ± 0.5 °CS

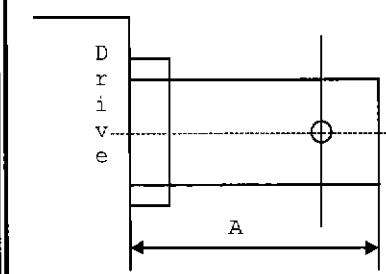
Testoil-ISO 4113

	Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread	
1.	Basic setting	750	13	591 - 609	10	586 - 614	15
2.	Basic setting	900	13	615 - 645	16	607 - 653	24
3.	Basic setting	900	15	710 - 740	16	702 - 748	24
4.	Basic setting	300	4.5	35 - 55	10	28 - 62	18
5.	Del.qty. profile						
6.	Del.qty. profile						



Other test operations: CRT0 = defined by marking the control rack with a locating pin

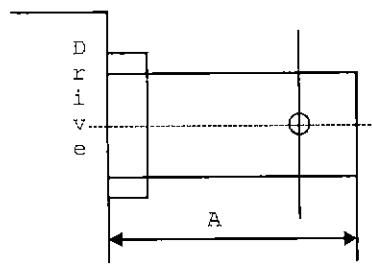
Addit. work steps :

Projection of control rack on drive side  
when set to equal value  
A = approx. 38.5 mm

- Enter measured value in test sheet
- Enter projection when switched off (CRT = 0)



<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 017				
Pump:	FA-PE 12/10/160/100 LS 43	Customer: Deutz-MWM				
Governor:		Engine: TBD 604 BV12				
Fuel-supply p:		Power : 144 kw( Bhp 0 )				
Injector:		Applic.: Lokom./Katamaran				
Perm pres..	1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:		
Perm.pos:	PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113		
When control rack on rear of pump: P.S. 1 left, P.S. 2 right			Overflow valve: 1 417 413 000	40 +5° C		
Test pump as per AP			LPC 4.1 + 0.1 mm at CRT	= 20 mm		
GOR	clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub>	°CS		
Cylinder 1 on drive side				=		
Cam sequence: 1 - 12 - 8 - 5 - 3 - 10 - 9 - 4 - 2 - 11 - 7 - 6						
Cam spacing: 0 45 60 105 120 165 180 225 240 285 300 345				°CS		
FB mark :	Cyl. no.	Tol.f.cam spacing: ±	0.5	°CS		
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	591 - 609	10	586 - 614	15
2. Basic setting	900	13	615 - 645	16	607 - 653	24
3. Basic setting	900	15	710 - 740	16	702 - 748	24
4. Basic setting	300	4.5	35 - 55	10	28 - 62	18
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↓2	↑3	Fuel inlet 1 + 2		
	8		4	Fuel outlet 3		
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :	Projection of control rack on drive side when set to equal value A = approx. 38.5 mm					
	<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>					

 <b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 016				
Pump:	FA-PE 12/10/160/900 LS 42	Customer: Deutz-MWM				
Governor:		Engine: TBD 604 BV16				
Fuel-supply p:	0 440 002 031 + 0 440 002 033	Power : 144 kw( Bhp 0 )				
Injector:		Applic.: Lokom./Katamaran				
Perm pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027				
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Test oil: ISO 4113				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		Overflow valve: 1 417 413 000				
		= 20 mm +0.5 mm u.CRT <sub>max</sub> =				
Cylinder 1 on drive side						
Cam sequence: 1 - 12 - 8 - 5 - 3 - 10 - 9 - 4 - 2 - 11 - 7 - 6						
Cam spacing: 0 45 60 105 120 165 180 225 240 285 300 345 °CS						
FB mark : Cyl. no. Tol.f.cam spacing: ± 0.5 °CS						
Delivery quantities		Setting values (mm <sup>3</sup> /H)	Checking values (mm <sup>3</sup> /H)			
	n rpm	CRT mm	Mean value	Spread	Mean value	Spead
1. Basic setting	750	13	591 - 609	10	586 - 614	15
2. Basic setting	900	13	615 - 645	16	607 - 653	24
3. Basic setting	900	15	710 - 740	16	702 - 748	24
4. Basic setting	300	4.5	35 - 55	10	28 - 62	18
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↓ 2	↑ 3	Fuel inlet 1 + 2 Fuel outlet 3		
	8		4			
		7	6			
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				





**IN-LINE INJECTION PUMPS**  
Testing and setting values

Assembly no.:  
9 400 365 816

Pump: FA-PE 8/10/160/100 LS 40

Customer: Deutz-MWM

Governor:

Engine: TBD 604 BV16

Fuel-supply p:

Power: 192 kw(0 Bh p)

Injector:

Applic.: Lokom./Katamaran

Perm.pres.: 1.5 bar NHA: 0 681 443 022

Press.l: 1 680 750 027

Test oil:

Perm.pos: PS Open.p.: 172 + 3 bar

(mm) 8 x 2 x 1500

ISO 4113

When control rack on rear of pump:

Overflow valve:

P.S. 1 left, P.S. 2 right

1 417 413 000

40 +5° C

Test pump as per AP LPC 4.1 + 0.1 mm at CRT = 20 mm  
DOR clock looking at drive/SD diff. betw. CRT = +0.5 mm u.CRT<sub>max</sub> °CS  
wise =

Cylinder 1 on drive side

Cam sequence: 1 - 5 - 7 - 8 - 6 - 3 - 4 - 2

Cam spacing: 0 45 90 135 180 225 270 315 °CS

FB mark : Cyl. no. Tol.f.cam spacing: ± 0.5 °CS

Testoil-ISO 4113

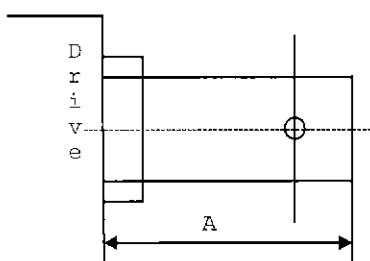
	Delivery quantities		Setting values (mm <sup>3</sup> /H)		Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1.	Basic setting	750	13	591 - 609	10	586 - 614
2.	Basic setting	900	13	615 - 645	16	607 - 653
3.	Basic setting	900	15	710 - 740	16	702 - 748
4.	Basic setting	300	4.5	35 - 55	10	28 - 62
5.	Del.qty. profile					
6.	Del.qty. profile					

Drive 1 ↑ 2 ↓ 3 Fuel inlet 3  
8 [ ] 4 Fuel outlet 1  
7 6 5

Other test operations: CRT0 = defined by marking the control rack with a locating pin

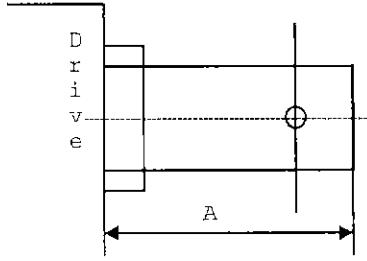
Addit. work steps :

Projection of control rack on drive side  
when set to equal value  
A = approx. 38.5 mm

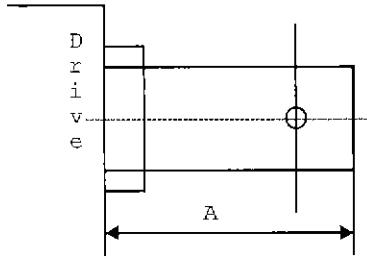


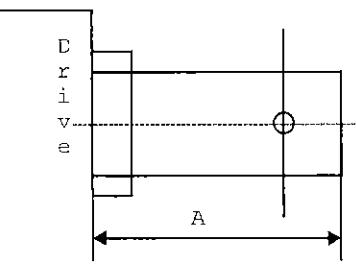
- Enter measured value in test sheet
- Enter projection when switched off (CRT = 0)



<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 814				
Pump:	FA-PE 8/10/160/100 LS 36	Customer: Deutz-MWM				
Governor:		Engine: TBD 604 BV16				
Fuel-supply p:		Power : kw( Bh p)				
Injector:		Applik.: Lokom./Katamaran				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.I: 1 680 750 027				
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000				
		Test oil: ISO 4113				
Test pump as per AP		LPC 4.1 + 0.1 mm at CRT = 20 mm				
DOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub> °CS				
Cylinder 1 on drive side		=				
Cam sequence: 1 - 3 - 4 - 8 - 6 - 5 - 7 - 2						
Cam spacing: 0 45 90 135 180 225 270 315		°CS				
FB mark : Cyl. no.		Tol.f.cam spacing: ± 0.5 °CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	591 - 609	10	586 - 614	15
2. Basic setting	900	13	615 - 645	16	607 - 653	24
3. Basic setting	900	15	710 - 740	16	702 - 748	24
4. Basic setting	300	4.5	35 - 55	10	28 - 62	18
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↑	2	↓ 3		Fuel inlet 3	
	8	4			Fuel outlet 1	
	7	6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 38.5 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 813				
Pump:	FA-PE 8/10/160/100 LS 35	Customer: Deutz-MWM				
Governor:		Engine: TBD 604 BV16				
Fuel-supply p:		Power : kw( Bh p)				
Injector:		Applik.: Lokom./Katamaran				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027				
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Test oil: ISO 4113				
Test pump as per AP		LPC 4.1 + 0.1 mm at CRT = 20 mm				
GOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub> °CS				
Cylinder 1 on drive side		=				
Cam sequence: 1 - 5 - 7 - 8 - 6 - 3 - 4 - 2						
Cam spacing: 0 45 90 135 180 225 270 315		°CS				
FB mark : Cyl. no.		Tol.f.cam spacing: ± 0.5 °CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	591 - 609	10	586 - 614	15
2. Basic setting	900	13	615 - 645	16	607 - 653	24
3. Basic setting	900	15	710 - 740	16	702 - 748	24
4. Basic setting	300	4.5	35 - 55	10	28 - 62	18
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↑	2	↓ 3		Fuel inlet 3	
	8	7	6	4	Fuel outlet 1	
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 38.5 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

 <b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values		Assembly no.: 9 400 365 612		
Pump:	FA-PE 6/10/160/300 RS 34		Customer: Deutz-MWM		
Governor:			Engine: TBD 604 B6L		
Fuel-supply p:			Power : kw( Bh p)		
Injector:			Applik.: Lokom./Katamaran		
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500	Test oil: ISO 4113		
Perm.pos: PS	Open.p.: 172 + 3 bar	Overflow valve: 1 417 413 000	40 +5° C		
When control rack on rear of pump: P.S. 1 left, P.S. 2 right					
Test pump as per AP		LPC 4.1 + 0.1 mm at CRT = 20 mm			
DOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub>	°CS		
Cylinder 1 on drive side					
Cam sequence: 1 - 5 - 3 - 6 - 2 - 4					
Cam spacing: 0 60 120 180 240 300		°CS			
FB mark : Cyl. no.		Tol.f.cam spacing: ± 0.5	°CS		
Delivery quantities		Setting values (mm <sup>3</sup> /H)		Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value
1.	Basic setting	750	13	591 – 609	10
2.	Basic setting	900	13	615 – 645	16
3.	Basic setting	900	15	710 – 740	16
4.	Basic setting	300	4.5	35 - 55	10
5.	Del.qty. profile				
6.	Del.qty. profile				
Drive	1	2	3	Fuel inlet 5	
	8		4	Fuel outlet 7	
	7 ↓	6	↑ 5		
Other test operations: CRT0 = defined by marking the control rack with a locating pin					
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 38.5 mm			
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>			

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 812					
Pump:	FA-PE 8/10/160/900/4 LS 33	Customer: Deutz-MWM					
Governor:		Engine: TBD 604 BV8					
Fuel-supply p:		Power : kw(      Bh p)					
Injector:		Applic.: Lokom./Katamaran					
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.I: 1 680 750 027					
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500					
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000					
Test pump as per AP		Test oil: ISO 4113					
DOR clock looking at drive/SD diff. betw. CRT =	LPC	4.1 + 0.1 mm at CRT = 20 mm +0.5 mm u.CRT <sub>max</sub> °CS					
wise		=					
Cylinder 1 on drive side							
Cam sequence: 1 - 5 - 4 - 2 - 6 - 3 - 7 - 8							
Cam spacing: 0 45 90 135 180 225 270 315	°CS						
FB mark : Cyl. no.	Tol.f.cam spacing: ± 0.5	°CS					
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)		
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread	
1. Basic setting	750	13	591 - 609	10	586 - 614	15	
2. Basic setting	900	13	615 - 645	16	607 - 653	24	
3. Basic setting	900	15	710 - 740	16	702 - 748	24	
4. Basic setting	300	4.5	35 - 55	10	28 - 62	18	
5. Del.qty. profile							
6. Del.qty. profile							
Drive	1 ↑	2	↓ 3		Fuel inlet 3		
	8			4	Fuel outlet 1		
7		6		5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin							
Addit. work steps :	Projection of control rack on drive side when set to equal value A = approx. 38.5 mm						
	<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>						

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values			Assembly no.: 9 400 365 014		
Pump:	FA-PE 12/10/160/900 LS 32			Customer: Deutz-MWM		
Governor:				Engine: TBD 604 BV 12		
Fuel-supply p:				Power : kw(      Bh p)		
Injector:				Applik.: Lokom./Katamaran		
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:			
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113			
When control rack on rear of pump: P.S. 1 left, P.S. 2 right			Overflow valve: 1 417 413 000	40 +5° C		
Test pump as per AP			LPC 4.1 + 0.1 mm at CRT	= 20 mm		
DOR clock looking at drive/SD diff. betw. CRT = wise			+ 0.5 mm u.CRT <sub>max</sub>	°CS		
Cylinder 1 on drive side			=			
Cam sequence: 1 - 12 - 8 - 5 - 3 - 10 - 9 - 4 - 2 - 11 - 7 - 6						
Cam spacing: 0 45 60 105 120 165 180 225 240 285 300 345			°CS			
FB mark : Cyl. no.			Tol.f.cam spacing ± 0.5	°CS		
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	591 - 609	10	586 - 614	15
2. Basic setting	900	13	615 - 645	16	607 - 653	24
3. Basic setting	900	15	710 - 740	16	702 - 748	24
4. Basic setting	300	4.5	35 - 55	10	28 - 62	18
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↓ 2	↑ 3	Fuel inlet 1 + 2		
	8	4			Fuel outlet 2	
7			6	5		
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values			Assembly no.: 9 400 365 611		
Pump:	FA-PE 6/10/160/300 RS 31			Customer: Deutz-MWM		
Governor:				Engine: TBD 604 B L6		
Fuel-supply p:				Power : kw( Bh p)		
Injector:				Applic.:		
Perm.pres.: 1.5 bar	NHA: 0 681 443 022		Press.l: 1 680 750 027	Test oil:		
Perm.pos: PS	Open.p.: 172 + 3 bar		(mm) 8 x 2 x 1500	ISO 4113		
When control rack on rear of pump: P.S. 1 left, P.S. 2 right			Overflow valve: 1 417 413 000	40 +5° C		
Test pump as per AP	LPC	4.1 + 0.1 mm at CRT	= 20 mm			
DOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub>	=	°CS		
Cylinder 1 on drive side						
Cam sequence: 1 - 5 - 3 - 6 - 2 - 4						
Cam spacing: 0 60 120 180 240 300	°CS					
FB mark : Cyl. no.	Tol.f.cam spacing:±		0.5	°CS		
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	16.5	731 - 749	10	726 - 754	15
2. Basic setting	900	16.5	705 - 735	16	697 - 743	24
3. Basic setting	900	13.0	760 - 780	16	552 - 598	24
4. Basic setting	300	5.0	50 - 80	15	43 - 87	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 2 3				Fuel inlet 5		
8	4			Fuel outlet 7		
7 ↓	6			↑ 5		
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 41.5 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 811				
Pump:	FA-PE 8/10/160/900 4 LS 30	Customer: Deutz-MWM				
Governor:		Engine: TBD 604 BV8				
Fuel-supply p:		Power : kw(      Bh p)				
Injector:		Applic.:				
Perm pres..	1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:		
Perm.pos:	PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113		
When control rack on rear of pump: P.S. 1 left, P.S. 2 right			Overflow valve: 1 417 413 000	40 +5 °C		
Test pump as per AP			LPC 4.1 + 0.1 mm at CRT	= 20 mm		
GOR	clock wise	looking at drive/SD diff. betw. CRT =	+0.5 mm u.CRT <sub>max</sub>	°CS		
Cylinder 1 on drive side			=	—		
Cam sequence: 1 - 5 - 4 - 2 - 6 - 3 - 7 - 8						
Cam spacing: 0 45 90 135 180 225 270 315				°CS		
FB mark	:	Cyl. no.	Tol.f.cam spacing: ± 0.5	°CS		
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	16.5	731 - 749	10	726 - 754	15
2. Basic setting	900	16.5	705 - 735	16	697 - 743	24
3. Basic setting	900	13.0	760 - 780	16	552 - 598	24
4. Basic setting	300	5.0	50 - 80	15	43 - 87	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↑	2	↓ 3		Fuel inlet 3	
	8		4		Fuel outlet 1	
	7	6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 41.5 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				



**IN-LINE INJECTION PUMPS**  
Testing and setting values

Assembly no.:  
9 400 365 013

Pump: FA-PE 12/10/160/900 LS 29

Customer: Deutz-MWM

Governor:

Engine: TBD 604 BV12

Fuel-supply p:

Power : kw( Bh  
p)

Injector:

Applc.:

Perm pres.. 1.5 bar

NHA: 0 681 443 022

Press.l: 1 680 750 027

Test oil:

Perm.pos: PS

Open.p.: 172 + 3 bar

(mm) 8 x 2 x 1500

ISO 4113

When control rack on rear of pump:

Overflow valve:

P.S. 1 left, P.S. 2 right

1 417 413 000

40 +5° C

Test pump as per AP LPC 4.1 + 0.1 mm at CRT = 20 mm  
DOR clock looking at drive/SD diff. betw. CRT = +0.5 mm u.CRT<sub>max</sub> °CS  
wise =

Cylinder 1 on drive side

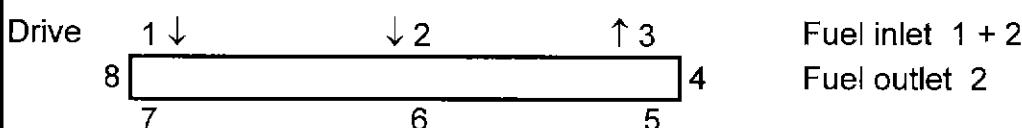
Cam sequence: 1 - 12 - 8 - 5 - 3 - 10 - 9 - 4 - 2 - 11 - 7 - 6

Cam spacing: 0 45 60 105 120 165 180 225 240 285 300 315 °CS

FB mark : Cyl. no. Tol.f.cam spacing: ± 0.5 °CS

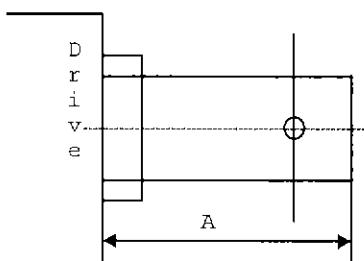
Testoil-ISO 4113

	Delivery quantities		Setting values (mm <sup>3</sup> /H)		Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	16.5	731 - 749	10	726 - 754	15
2. Basic setting	900	16.5	705 - 735	16	697 - 743	24
3. Basic setting	900	13.0	760 - 780	16	552 - 598	24
4. Basic setting	300	5.0	50 - 80	15	43 - 87	23
5. Del.qty. profile						
6. Del.qty. profile						



Other test operations: CRT0 = defined by marking the control rack with a locating pin

Addit. work steps : Projection of control rack on drive side  
when set to equal value  
A = approx. 39 mm

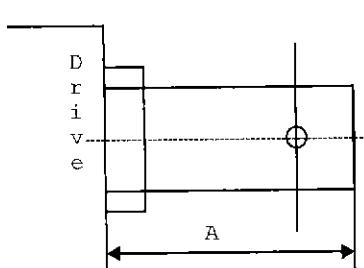


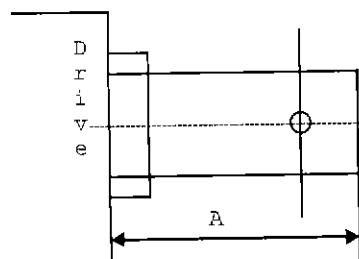
- Enter measured value in test sheet
- Enter projection when switched off (CRT = 0)

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values		Assembly no.: 9 400 365 809		
Pump:	FA-PE 8/10/150/900 4 LS 26-1		Customer: Deutz-MWM		
Governor:			Engine: TBD 604 V8		
Fuel-supply p:			Power : kw(      Bh p)		
Injector:			Applik.:		
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:		
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113		
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000	40 +5° C		
Test pump as per AP		LPC 4.1 + 0.1 mm at CRT	= 20 mm		
DOR clock looking at drive/SD diff. betw. CRT =		+0.5 mm u.CRT <sub>max</sub>	°CS		
Cylinder 1 on drive side		=			
Cam sequence: 1 - 5 - 4 - 2 - 6 - 3 - 7 - 8					
Cam spacing: 0 45 90 135 180 225 270 315			°CS		
FB mark : Cyl. no.	Tol.f.cam spacing: ± 0.5		°CS		
Delivery quantities		Setting values (mm <sup>3</sup> /H)		Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value
1. Basic setting	750	13	493 - 507	8	489 - 511
2. Basic setting	900	13	511 - 539	15	502 - 548
3. Basic setting	900	16	622 - 658	20	613 - 667
4. Basic setting	300	5	51 - 79	15	44 - 86
5. Del.qty. profile					
6. Del.qty. profile					
Drive 1 ↑ 2 ↓ 3	8		4	Fuel inlet 3	
	7		6	Fuel outlet 1	
5					
Other test operations: CRT0 = defined by marking the control rack with a locating pin					
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm			
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>			

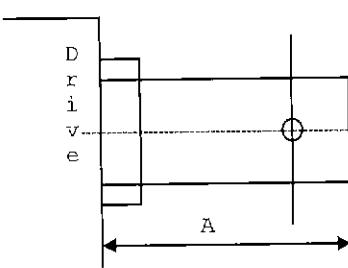
<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 808				
Pump:	FA-PE 8/10/150/11 LS 21-1	Customer: Deutz-MWM				
Governor:		Engine: TBD 603 V16				
Fuel-supply p:		Power : kw( Bh p)				
Injector:		Applic.:				
Perm pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500				
Perm.pos: PS	Open.p.: 172 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000				
Test pump as per AP		LPC 4.1 + 0.1 mm at CRT = 20 mm				
DOR clock	looking at drive/SD diff. betw. CRT = wise	+0.5 mm u.CRT <sub>max</sub> °CS				
Cylinder 1 on drive side		=				
Cam sequence:	1 - 3 - 6 - 5 - 7 - 8 - 4 - 2					
Cam spacing:	0 45 90 135 180 225 270 315	°CS				
FB mark :	Cyl. no.	Tol.f.cam spacing: ± 0.5 °CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)	Checking values (mm <sup>3</sup> /H)			
	n rpm	CRT mm	Mean value	Spread	Mean value	Spead
1. Basic setting	750	13	493 - 507	8	489 - 511	12
2. Basic setting	900	13	511 - 539	15	502 - 548	23
3. Basic setting	900	16	622 - 658	20	613 - 667	30
4. Basic setting	300	5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↑	2	↓ 3		Fuel inlet 3	
	8		4		Fuel outlet 1	
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :	Projection of control rack on drive side when set to equal value A = approx. 39 mm					
	<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>					

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 807				
Pump:	FA-PE 8/10/150/100 LS 20-1	Customer: Deutz-MWM				
Governor:		Engine: TBD 603 V16				
Fuel-supply p:		Power : kw(      Bh p)				
Injector:		Applic.:				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500				
Perm.pos: PS	Open.p.: 172 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000				
Test pump as per AP LPC		4.1 + 0.1 mm at CRT = 20 mm				
DOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub> °CS				
Cylinder 1 on drive side		=				
Cam sequence: 1 - 3 - 4 - 2 - 7 - 8 - 6 - 5						
Cam spacing: 0 45 90 135 180 225 270 315		°CS				
FB mark :	Cyl. no.	Tol.f.cam spacing: ± 0.5 °CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)	Checking values (mm <sup>3</sup> /H)			
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	493 - 507	8	489 - 511	12
2. Basic setting	900	13	511 - 539	15	502 - 548	23
3. Basic setting	900	15	622 - 658	20	613 - 667	30
4. Basic setting	300	5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↑	2	3	Fuel inlet 3		
	8	7	6	4	Fuel outlet 1	
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :	Projection of control rack on drive side when set to equal value A = approx. 39 mm					
	<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>					

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 361 601				
Pump: FA-PE 6/9M/170/700/3 S2	Customer:					
Governor:	Engine: AGO195V12CSMR					
Fuel-supply p:	Power : kw( Bhp )					
Injector:	Applic.:					
Perm.pres.: 1.5 bar NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500	Test oil: ISO 4113				
Perm.pos: PS Open.p.: 172 + 3 bar	Overflow valve: 1 417 413 000					
When control rack on rear of pump: P.S. 1 left, P.S. 2 right	40 +5° C					
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise	LPC	6,6 + 0,1 mm at CRT = 27 mm +0.5 mm u.CRT <sub>max</sub> °CS				
Cylinder 1 on drive side						
Cam sequence: 1 - 5 - 3 - 6 - 2 - 4						
Cam spacing: 0 60 120 180 240 300	°CS					
FB mark : Cyl. no.	Tol.f.cam spacing: ± 0.5	°CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	18	622 - 638	12		
2. Basic setting	750	15	420 - 440	15		
3. Basic setting	300	12	203 - 227	20		
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 ↓ 8	↑ 2	3	4	Fuel inlet 1 Fuel outlet 2		
	6	5				
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :	Projection of control rack on drive side when set to equal value A = approx. 39 mm					
	<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>					

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 361 602					
Pump:	FA-PE 6/9M/170/700/3 S3	Customer:					
Governor:		Engine: AGO195V12CSMR					
Fuel-supply p:		Power : kw( Bhp )					
Injector:		Applic.:					
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500	Test oil: ISO 4113				
Perm.pos: PS	Open.p.: 172 + 3 bar	Overflow valve: 1 417 413 000	40 +5°C				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right							
Test pump as per AP		LPC 6.6 + 0.1 mm at CRT = 27 mm					
DOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub>	°CS				
Cylinder 1 on drive side							
Cam sequence: 1 - 5 - 3 - 6 - 2 - 4							
Cam spacing: 0 60 120 180 240 300		°CS					
FB mark : Cyl. no.		Tol.f.cam spacing: ± 0.5	°CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)		
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread	
1. Basic setting	750	18	622 - 638	12			
2. Basic setting	750	15	420 - 440	15			
3. Basic setting	300	12	203 - 227	20			
4. Basic setting							
5. Del.qty. profile							
6. Del.qty. profile							
Drive 1 ↓	↑ 2	3	Fuel inlet 1				
8		4	Fuel outlet 2				
7	6	5					
Other test operations:		CRT0 = defined by marking the control rack with a locating pin					
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm					
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>					

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 361 801				
Pump:	FA-PE 8/9M/170/900/6 S4	Customer: SACM				
Governor:		Engine: AGO195V16CSMR				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applik.:				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500				
Perm.pos: PS	Open.p.: 172 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		2.4 + 0.1 mm at CRT = 26 mm +0.5 mm u.CRT <sub>max</sub> °CS =				
Cylinder 1 on drive side Cam sequence: 1 - 3 - 4 - 7 - 8 - 6 - 5 - 2		°CS				
Cam spacing: 60 ± 0,5						
FB mark :	Cyl. no.	Tol.f.cam spacing: ± 0.5 °CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	21	772 - 788	12		
2. Basic setting	750	18	622 - 638	12		
3. Basic setting	750	15	420 - 440	15		
4. Basic setting	300	12	203 - 227	20		
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↑ 2	3	4	Fuel inlet 1 Fuel outlet 2	
	8		6	5		
Other test operations:		CRT0 = defined by marking the control rack with a locating pin				
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

 <b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values		Assembly no.:		
Pump:	FA-PE 8/9M/170/500/6 S5		Customer: SACM		
Governor:			Engine: AGO195V16CSMR		
Fuel-supply p:			Power : kw(      Bhp )		
Injector:			Applik.:		
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:		
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113		
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000	40 +5° C		
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		LPC 4.1 + 0.1 mm at CRT +0.5 mm u.CRT <sub>max</sub>	= 20 mm °CS		
Cylinder 1 on drive side Cam sequence: 1 - 3 - 4 - 7 - 8 - 6 - 5 - 2 Cam spacing: 60 ± 0,5		FB mark : Cyl. no. Tol.f.cam spacing: ± 0.5 °CS			
Delivery quantities		Setting values (mm <sup>3</sup> /H)		Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value
1. Basic setting	750	21	772 - 788	12	
2. Basic setting	750	18	622 - 638	12	
3. Basic setting	750	15	420 - 440	15	
4. Basic setting	300	12	203 - 227	20	
5. Del.qty. profile					
6. Del.qty. profile					
Drive 1 ↓	↑ 2	3	Fuel inlet 1		
8		4	Fuel outlet 2		
7	6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin					
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm			
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>			





## IN-LINE INJECTION PUMPS

Testing and setting values

Assembly no.:  
9 400 361 604

Pump: FA-PE 6/9M/170/300/3 S 7

Customer:

Governor:

Engine: AGO195V12CSMR

Fuel-supply p:

Power : kw( Bhp )

Injector:

Applik.:

Perm.pres.: 1.5 bar NHA: 0 681 443 022

Press.l.: 1 680 750 027

Test oil:

Perm.pos: PS Open.p.: 172 + 3 bar

(mm) 8 x 2 x 1500

ISO 4113

When control rack on rear of pump:

Overflow valve:

P.S. 1 left, P.S. 2 right

1 417 413 000

40 +5°C

Test pump as per AP LPC 6.6 +0.1 mm at CRT = 27 mm  
°CS  
DOR clock looking at drive/SD diff. betw. CRT = +0.5 mm u.CRT<sub>max</sub>  
wise =

Cylinder 1 on drive side

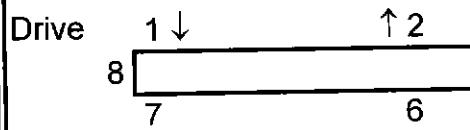
Cam sequence: 1 - 5 - 3 - 6 - 2 - 4

Cam spacing: 0 60 120 180 240 300 °CS

FB mark : Cyl. no. Tol.f.cam spacing: ± 0.5 °CS

Testoil-ISO 4113

	Delivery quantities		Setting values (mm <sup>3</sup> /H)		Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	18	622 – 638	12		
2. Basic setting	750	15	520 – 440	15		
3. Basic setting	300	12	203 – 227	20		
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						

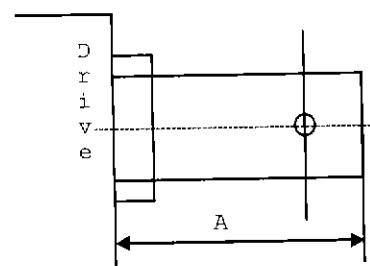


Fuel inlet 1

Fuel outlet 2

Other test operations: CRT0 = defined by marking the control rack with a locating pin

Addit. work steps :

Projection of control rack on drive side  
when set to equal value  
A = approx. 39 mm

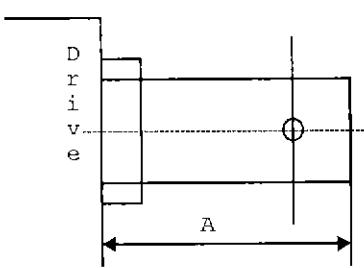
- Enter measured value in test sheet
- Enter projection when switched off (CRT = 0)

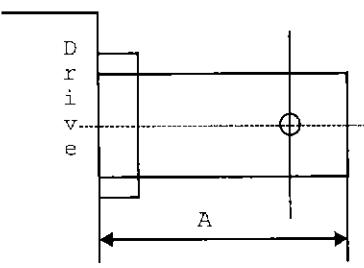
<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 361 803				
Pump:	FA-PE 8/9M/170/900/6 S 8	Customer: SACM				
Governor:		Engine: AGO195V16CSMR				
Fuel-supply p:		Power :      kw(      Bhp )				
Injector:		Applik.:				
Perm pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500				
Perm.pos: PS	Open.p.: 172 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000				
Test pump as per AP		LPC 2.4 +0.1 mm at CRT = 26 mm				
DOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub> °CS				
Cylinder 1 on drive side		=				
Cam sequence: 1 - 3 - 4 - 7 - 8 - 6 - 5 - 2						
Cam spacing: 60 ± 0.5		°CS				
FB mark :	Cyl. no.	Tol.f.cam spacing: ± 0.5 °CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)	Checking values (mm <sup>3</sup> /H)			
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	21	772 - 788	12		
2. Basic setting	750	18	622 - 638	12		
3. Basic setting	750	15	420 - 440	15		
4. Basic setting	300	12	203 - 227	20		
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↑ 2	3	Fuel inlet 1		
	8		4	Fuel outlet 2		
	7	6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :	Projection of control rack on drive side when set to equal value A = approx. 39 mm					
	<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>					

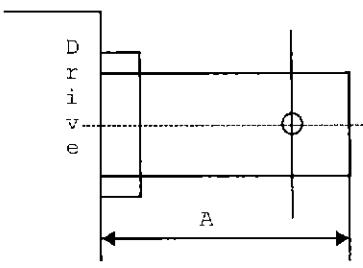
<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 361 804				
Pump:	FA-PE 8/9M/170/500/6 S 9	Customer: SACM				
Governor:		Engine: AGO195V16CSMR				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applic.:				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l.: 1 680 750 027 (mm) 8 x 2 x 1500				
Perm.pos: PS	Open.p.: 172 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		2.4 + 0.1 mm at CRT = 26 mm +0.5 mm u.CRT <sub>max</sub> °CS =				
Cylinder 1 on drive side Cam sequence: 1 - 3 - 4 - 7 - 8 - 6 - 5 - 2						
Cam spacing: 60 ± 0,5		°CS				
FB mark : Cyl. no.		Tol.f.cam spacing: ± 0.5 °CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	21	772 - 788	12		
2. Basic setting	750	18	622 - 638	12		
3. Basic setting	750	15	420 - 440	15		
4. Basic setting	300	12	203 - 227	20		
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↑ 2	3	Fuel inlet 1		
	8		4	Fuel outlet 2		
7 6 5						
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

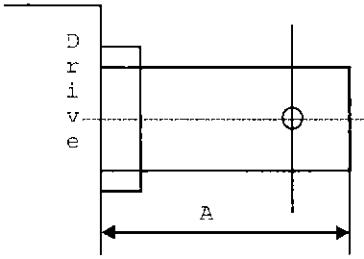
<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 601				
Pump:	FA-PE 6/10/150/300 RS 10	Customer: Deutz-MWM				
Governor:		Engine: TBD 604 L6				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applik.:				
Perm.pres : 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500				
Perm.pos: PS	Open.p.: 172 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		4.1 + 0.1 mm at CRT = 20 mm +0.5 mm u.CRT <sub>max</sub> °CS =				
Cylinder 1 on drive side Cam sequence: 1 - 5 - 3 - 6 - 2 - 4 Cam spacing: 0 60 120 180 240 300 FB mark : Cyl. no.		°CS Tol.f.cam spacing: ± 0.5 °CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13.5	493 - 507	8	489 - 511	12
2. Basic setting	900	13.5	511 - 539	15	502 - 548	23
3. Basic setting	900	16.5	622 - 658	20	613 - 667	30
4. Basic setting	300	5.5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1	2	3	4	Fuel inlet 5 Fuel outlet 7		
8	7 ↓	6	↑ 5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 602						
Pump:	FA-PE 6/10/150/300/3 LS 11	Customer:						
Governor:		Engine: TBD 603 L12						
Fuel-supply p:		Power : kw( Bhp )						
Injector:		Applik.:						
Perm.pres: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500	Test oil: ISO 4113					
Perm.pos: PS	Open.p.: 172 + 3 bar	Overflow valve: 1 417 413 000						
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		40 +5° C						
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		LPC 4.1 + 0.1 mm at CRT + 0.5 mm u.CRT <sub>max</sub>	= 15 mm °CS					
Cylinder 1 on drive side Cam sequence: 1 - 6 - 2 - 4 - 3 - 5 Cam spacing: 0 15 120 135 240 255		Tol.f.cam spacing: ± 0.5	°CS					
FB mark : Cyl. no.								
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)			
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread		
1. Basic setting	750	13.5	493 - 507	8	409 - 511	12		
2. Basic setting	900	13.5	511 - 539	15	502 - 548	23		
3. Basic setting	900	16.5	622 - 658	20	613 - 667	30		
4. Basic setting	300	5.5	51 - 79	15	44 - 46	23		
5. Del.qty. profile								
6. Del.qty. profile								
Drive	1 ↓	↑ 2	3	Fuel inlet 1				
	8		4	Fuel outlet 2				
7		6	5					
Other test operations:		CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm						
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>						

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 365 801				
Pump:	FA-PE 8/10/150/100 LS 12	Customer: Südbremse				
Governor:		Engine: MWM TBD 603V16				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applik.:				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500				
Perm.pos: PS	Open.p.: 172 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		4.1 + 0.1 mm at CRT = 15 mm +0.5 mm u.CRT <sub>max</sub> °CS =				
Cylinder 1 on drive side Cam sequence: 1 - 3 - 4 - 2 - 7 - 8 - 6 - 5 Cam spacing: 0 45 90 135 180 225 270 315 °CS FB mark : Cyl. no. Tol.f.cam spacing:± 0.5 °CS						
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13.5	493 - 507	8	489 - 511	12
2. Basic setting	900	13.5	511 - 539	15	502 - 548	23
3. Basic setting	900	16.5	622 - 658	20	613 - 667	30
4. Basic setting	300	5.5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↑ 2	3	Fuel inlet 1		
	8		4	Fuel outlet 2		
7		6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

 <b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values		Assembly no.: 9 400 365 603			
Pump:	FA-PE 6/10/150/300/3 LS 13		Customer:			
Governor:			Engine: TBD 603 V 12			
Fuel-supply p:			Power :      kw(      Bhp )			
Injector:			Applik.:			
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500	Test oil: ISO 4113			
Perm.pos: PS	Open.p.: 172 + 3 bar	Overflow valve: 1 417 413 000				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right			40 +5° C			
Test pump as per AP		LPC 4.1 + 0.1 mm at CRT = 15 mm DOR clock looking at drive/SD diff. betw. CRT = +0.5 mm u.CRT <sub>max</sub> °CS wise				
Cylinder 1 on drive side						
Cam sequence: 1 - 5 - 3 - 4 - 2 - 6						
Cam spacing: 0 15 120 135 240 255			°CS			
FB mark :	Cyl. no.	Tol.f.cam spacing: ± 0.5	°CS			
Delivery quantities		Setting values (mm <sup>3</sup> /H)		Checking values (mm <sup>3</sup> /H)		
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13.5	493 - 507	8	489 - 511	12
2. Basic setting	900	13.5	511 - 539	15	502 - 548	23
3. Basic setting	900	16.5	622 - 658	20	613 - 667	30
4. Basic setting	300	5.5	51 - 79	15	44 - 46	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↑ 2	3	Fuel inlet 1		
	8		4	Fuel outlet 2		
7                    6                    5						
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 365 802				
Pump:	FA-PE 8/10/150/100 LS 14	Customer: Südbremse				
Governor:		Engine: MWM TBD 603V16				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applik.:				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500				
Perm.pos: PS	Open.p.: 172 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		4.1 + 0.1 mm at CRT = 15 mm +0.5 mm u.CRT <sub>max</sub> °CS =				
Cylinder 1 on drive side Cam sequence: 1 - 3 - 6 - 5 - 7 - 8 - 4 - 2 Cam spacing: 0 45 90 135 180 225 270 315 °CS FB mark : Cyl. no. Tol.f.cam spacing: ± 0.5 °CS						
Delivery quantities		Setting values (mm <sup>3</sup> /H)	Checking values (mm <sup>3</sup> /H)			
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13.5	493 - 507	8	489 - 511	12
2. Basic setting	900	13.5	511 - 539	15	502 - 548	23
3. Basic setting	900	16.5	622 - 658	20	613 - 667	30
4. Basic setting	300	5.5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 ↓	↑ 2	3	Fuel inlet 1			
8		4	Fuel outlet 2			
7	6	5				
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

 <b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values		Assembly no.: 9 400 365 604				
Pump:	FA-PE 6/10/150/300 RS		Customer: Deutz-MWM				
Governor:			Engine: TBD 604 L6				
Fuel-supply p:			Power : kw( Bhp )				
Injector:			Applic.:				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:				
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000	40 +5° C				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		LPC 4.1 + 0.1 mm at CRT +0.5 mm u.CRT <sub>max</sub>	= 20 mm °CS				
Cylinder 1 on drive side Cam sequence: 1 - 5 - 3 - 6 - 2 - 4 Cam spacing: 0 60 120 180 240 300		Tol.f.cam spacing: ± 0.5	°CS				
FB mark : Cyl. no.							
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)		
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread	
1. Basic setting	750	13	493 - 507	8	489 - 511	12	
2. Basic setting	900	13	511 - 539	15	502 - 548	23	
3. Basic setting	900	16	622 - 658	20	613 - 667	30	
4. Basic setting	300	5	51 - 79	15	44 - 86	23	
5. Del.qty. profile							
6. Del.qty. profile							
Drive 1	2	3	Fuel inlet 5				
8	4		Fuel outlet 7				
7 ↓	6	↑ 5					
Other test operations: CRT0 = defined by marking the control rack with a locating pin							
Addit. work steps :	Projection of control rack on drive side when set to equal value A = approx. 39 mm						
	<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>						



## IN-LINE INJECTION PUMPS

Testing and setting values

Assembly no.:  
9 410 365 010

Pump: FA-PE 12/10/150/900/6 LS 16

Customer: Südbremse

Governor:

Engine: MWM TBD 604V12

Fuel-supply p:

Power : kw( Bhp )

Injector:

Applic.:

Perm.pres.: 1.5 bar NHA: 0 681 443 022

Press.l: 1 680 750 027

Test oil:

Perm.pos: PS Open.p.: 172 + 3 bar

(mm) 8 x 2 x 1500

ISO 4113

When control rack on rear of pump:

Overflow valve:

P.S. 1 left, P.S. 2 right

1 417 413 000

40 +5° C

Test pump as per AP LPC 4.1 + 0.1 mm at CRT = 20 mm  
DOR clock looking at drive/SD diff. betw. CRT = +0.5 mm u.CRT<sub>max</sub> °CS  
wise =

Cylinder 1 on drive side

Cam sequence: 1 - 12 - 8 - 5 - 3 - 10 - 9 - 4 - 2 - 11 - 7 - 6

Cam spacing: 0 45 60 105 120 165 180 225 240 285 300 345 °CS

FB mark : Cyl. no. Tol.f.cam spacing: ± 0.5 °CS

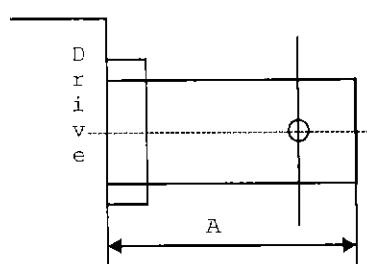
Testoil-ISO 4113

	Delivery quantities		Setting values (mm <sup>3</sup> /H)		Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	493 - 507	8	489 - 511	12
2. Basic setting	900	13	511 - 539	15	502 - 548	23
3. Basic setting	900	16	622 - 658	20	613 - 667	30
4. Basic setting	300	5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						

Drive 1 ↑ 2 ↓ ↓ 3 Fuel inlet 2 + 3  
8 4 Fuel outlet 1  
7 6 5

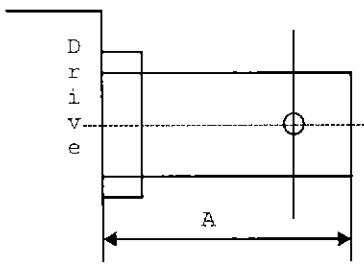
Other test operations: CRT0 = defined by marking the control rack with a locating pin

Addit. work steps :

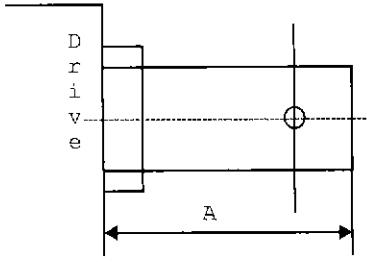
Projection of control rack on drive side  
when set to equal value  
A = approx. 39 mm

- Enter measured value in test sheet
- Enter projection when switched off (CRT = 0)

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 365 605			
Pump:	FA-PE 6/10/150/100 LS 17	Customer: Südbremse			
Governor:		Engine: MWM TBD 603V12			
Fuel-supply p:		Power : kw( Bhp )			
Injector:		Applic.:			
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:		
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113		
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000	40 +5° C		
Test pump as per AP		LPC 4.1 + 0.1 mm at CRT	= 20 mm		
DOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub>	°CS		
Cylinder 1 on drive side		=			
Cam sequence: 1 - 5 - 3 - 4 - 2 - 6					
Cam spacing:			°CS		
FB mark :	Cyl. no.	Tol.f.cam spacing:± 0.5			
Delivery quantities		Setting values (mm <sup>3</sup> /H)		Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value
1. Basic setting	750	13	493 - 507	8	489 - 511
2. Basic setting	900	13	511 - 539	15	502 - 548
3. Basic setting	900	16	622 - 658	20	613 - 667
4. Basic setting	300	5	51 - 79	15	44 - 86
5. Del.qty. profile					
6. Del.qty. profile					
Drive 1 ↓	↑ 2	3	Fuel inlet 1		
8		4	Fuel outlet 2		
7	6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin					
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm			
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>			

 <b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values			Assembly no.: 9 410 365 606		
Pump:	FA-PE 6/10/150/100 LS 18			Customer: Südbremse		
Governor:				Engine: MWM TBD 603V12		
Fuel-supply p:				Power : kw( Bhp )		
Injector:				Applic.:		
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:			
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113			
When control rack on rear of pump: P.S. 1 left, P.S. 2 right			Overflow valve: 1 417 413 000	40 +5° C		
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise			LPC 4.1 + 0.1 mm at CRT +0.5 mm u.CRT <sub>max</sub>	=	20 mm °CS	
Cylinder 1 on drive side Cam sequence: 1 - 5 - 3 - 4 - 2 - 6			Cam spacing: °CS			
FB mark :	Cyl. no.	Tol.f.cam spacing: ±	0.5	°CS		
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	493 - 507	8	489 - 511	12
2. Basic setting	900	13	511 - 539	15	502 - 548	23
3. Basic setting	900	16	622 - 658	20	613 - 667	30
4. Basic setting	300	5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↑ 2	3	Fuel inlet 1		
	8		4	Fuel outlet 2		
7                    6                    5						
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

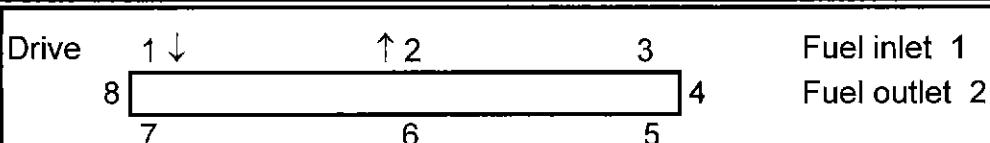
<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 365 803				
Pump:	FA-PE 8/10/150/900/4 LS 19	Customer: Südbremse				
Governor:		Engine: MWM TBD 604 V8				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applik.:				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500				
Perm.pos: PS	Open.p.: 172 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		4.1 + 0.1 mm at CRT = 20 mm +0.5 mm u.CRT <sub>max</sub> °CS =				
Cylinder 1 on drive side Cam sequence: 1 - 5 - 4 - 2 - 6 - 3 - 7 - 8 Cam spacing: 0 45 90 135 180 225 270 315 °CS FB mark : Cyl. no. Tol.f.cam spacing: ± 0.5 °CS						
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13.5	493 - 507	8	489 - 511	12
2. Basic setting	900	13.5	511 - 539	15	502 - 548	23
3. Basic setting	900	16.5	622 - 658	20	613 - 667	30
4. Basic setting	300	5.5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 2 3				Fuel inlet 5		
8	4			Fuel outlet 7		
7 ↓      6      ↑ 5						
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :	Projection of control rack on drive side when set to equal value A = approx. 39 mm					
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 804				
Pump:	FA-PE 8/10/150/100 LS 20	Customer: Deutz-MWM				
Governor:		Engine: TBD 603 V16				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applic.:				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.I: 1 680 750 027				
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Test oil: ISO 4113				
Overflow valve: 1 417 413 000		40 +5° C				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		4.1 + 0.1 mm at CRT = 20 mm +0.5 mm u.CRT <sub>max</sub> °CS =				
Cylinder 1 on drive side Cam sequence: 1 - 3 - 4 - 2 - 7 - 8 - 6 - 5 Cam spacing: 0 45 90 135 180 225 315 °CS FB mark : Cyl. no. Tol.f.cam spacing: ± 0.5 °CS						
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	493 - 507	8	489 - 511	12
2. Basic setting	900	13	511 - 539	15	502 - 548	23
3. Basic setting	900	16	622 - 658	20	613 - 667	30
4. Basic setting	300	5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↑      2      ↓ 3			Fuel inlet 3		
	8	4		Fuel outlet 1		
7	6	5				
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

Testoil-ISO 4113

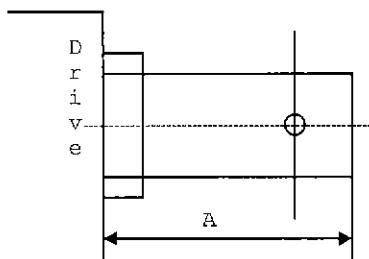
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000	
			40 +5° C

Delivery quantities		Setting values (mm³/H)			Checking values (mm³/H)		
		n rpm	CRT mm	Mean value	Spread	Mean value	Spead
1.	Basic setting	750	13	493 - 507	8	489 - 511	12
2.	Basic setting	900	13	511 - 539	15	502 - 548	23
3.	Basic setting	900	16	622 - 658	20	613 - 667	30
4.	Basic setting	300	5	51 - 79	15	44 - 86	23
5.	Del.qty. profile						
6.	Del.qty. profile						

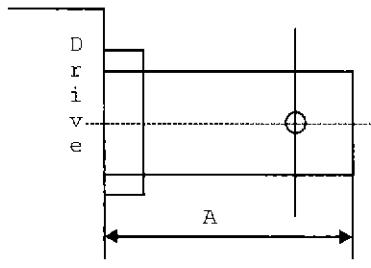


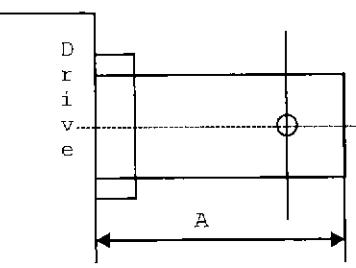
Other test operations: CRT0 = defined by marking the control rack with a locating pin

Addit. work steps :      Projection of control rack on drive side  
when set to equal value  
A = approx. 39 mm

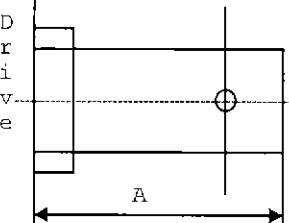


- Enter measured value in test sheet
  - Enter projection when switched off (CRT = 0)

 <b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 361 001				
Pump: FA-PE 10/9M/180/100 S 2	Customer:					
Governor:	Engine: AGO 195-V20					
Fuel-supply p:	Power : kw( Bhp )					
Injector:	Applic.:					
Perm.pres : 1.5 bar NHA: 0 681 443 022	Press.l: 1 680 750 027 (mm) 8 x 2 x 1500	Test oil: ISO 4113				
Perm.pos: PS Open.p.: 172 + 3 bar	Overflow valve: 1 417 413 000					
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		40 +5° C				
Test pump as per AP	LPC 4.4 + 0.1 mm at CRT	= 26 mm				
GOR clock looking at drive/SD diff. betw. CRT = wise	+0.5 mm u.CRT <sub>max</sub>	°CS				
Cylinder 1 on drive side						
Cam sequence: 1 - 3 - 6 - 9 - 7 - 10 - 8 - 5 - 2 - 4						
Cam spacing: 0 36 72 108 144 180 216 252 288 324		°CS				
FB mark : Cyl. no.	Tol.f.cam spacing: ± 0.5	°CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)	Checking values (mm <sup>3</sup> /H)			
	n rpm	CRT mm	Mean value	Spread	Mean value	Spred
1. Basic setting	750	23	1060 - 1080	18		
2. Basic setting	750	15	568 - 592	22		
3. Basic setting	300	12	246 - 274	27		
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↑ 2	3	Fuel inlet 1		
	8		4	Fuel outlet 2		
	7	6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :	Projection of control rack on drive side when set to equal value A = approx. 39 mm					
	<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>					

 <b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values		Assembly no.: 9 410 361 002
Pump:	FA-PE 10/9M/180/100 S 23		Customer:
Governor:			Engine: AGO 195-V20
Fuel-supply p:			Power : kw( Bhp )
Injector:			Applik.:
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000	40 +5° C
Test pump as per AP		LPC 4.4 + 0.1 mm at CRT = 26 mm	
DOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub>	°CS
Cylinder 1 on drive side			
Cam sequence: 1 - 3 - 6 - 9 - 7 - 10 - 8 - 5 - 2 - 4			
Cam spacing: 0 36 72 108 144 180 216 252 288 324		°CS	
FB mark : Cyl. no.		Tol.f.cam spacing: ± 0.5	°CS
Delivery quantities		Setting values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value
1. Basic setting	750	23	1060 - 1080
2. Basic setting	750	15	568 - 592
3. Basic setting	300	12	246 - 274
Basic setting			
5. Del.qty. profile			
6. Del.qty. profile			
Checking values (mm <sup>3</sup> /H)			
Drive 1 ↓	↑ 2	3	Fuel inlet 1
8		4	Fuel outlet 2
7	6	5	
Other test operations: CRT0 = defined by marking the control rack with a locating pin			
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm	
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>	

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 361 805				
Pump:	FA-PE 8/9M/180/100 S 24	Customer:				
Governor:		Engine: AGO 195 V 16 C				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applic.:				
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027	Test oil:			
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500	ISO 4113			
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000	40 +5° C			
Test pump as per AP		LPC 4.1 + 0.1 mm at CRT = 20 mm				
DOOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub>	°CS			
Cylinder 1 on drive side		=				
Cam sequence: 1 - 3 - 4 - 7 - 8 - 6 - 5 - 2						
Cam spacing: 0 45 90 135 180 225 270 315			°CS			
FB mark : Cyl. no.	Tol.f.cam spacing: ± 0.5	°CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	23	1060 - 1808	18		
2. Basic setting	750	15	568 - 592	22		
3. Basic setting	300	12	246 - 274	27		
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↑ 2	3	Fuel inlet 1		
	8		4	Fuel outlet 2		
7		6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :	Projection of control rack on drive side when set to equal value A = approx. 39 mm					
	<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>					

 BOSCH	IN-LINE INJECTION PUMPS Testing and setting values			Assembly no.: 9 400 361 806		
Pump:	FA-PE 8/9M/180/100/S 25			Customer:		
Governor:				Engine: AGO 195 V 16 C		
Fuel-supply p:				Power : kw( Bhp )		
Injector:				Applik.:		
Perm.pres.	1.5 bar	NHA:	0 681 443 022	Press.l:	1 680 750 027	Test oil:
Perm.pos:	PS	Open.p.:	172 + 3 bar	(mm)	8 x 2 x 1500	ISO 4113
When control rack on rear of pump: P.S. 1 left, P.S. 2 right			Overflow valve: 1 417 413 000		40 +5°C	
Test pump as per AP			LPC	4.1 + 0.1 mm at CRT	= 20 mm	
DOR	clock	looking at drive/SD diff. betw. CRT =		+0.5 mm u.CRT <sub>max</sub>		°CS
Cylinder 1 on drive side				=		
Cam sequence: 1 - 3 - 4 - 7 - 8 - 6 - 5 - 2						
Cam spacing: 0 45 90 135 180 225 270 315						°CS
FB mark	Cyl. no.		Tol.f.cam spacing: ±	0.5	°CS	
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	13	493 - 507	8	489 - 511	12
2. Basic setting	900	13	511 - 539	15	502 - 548	23
3. Basic setting	900	16	622 - 658	20	613 - 667	30
4. Basic setting	300	5	51 - 79	15	44 - 86	23
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↓	↑ 2	3	Fuel inlet 1		
	8		4	Fuel outlet 3		
7		6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm				
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>				

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 365 809			
Pump:	FA-PE 8/10/150/900/4 LS 26	Customer: Südbremse			
Governor:		Engine: MWM TBD 604 V8			
Fuel-supply p:		Power : kw( Bhp )			
Injector:		Applik.:			
Perm.pres.: 1.5 bar	NHA: 0 681 443 022	Press.l: 1 680 750 027			
Perm.pos: PS	Open.p.: 172 + 3 bar	(mm) 8 x 2 x 1500			
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 1 417 413 000			
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise	LPC	4.1 + 0.1 mm at CRT = 20 mm +0.5 mm u.CRT <sub>max</sub> °CS =			
Cylinder 1 on drive side					
Cam sequence: 1 - 5 - 4 - 2 - 6 - 3 - 7 - 8					
Cam spacing: 0 45 90 135 180 225 270 315		°CS			
FB mark : Cyl. no.	Tol.f.cam spacing: ± 0.5	°CS			
Delivery quantities		Setting values (mm <sup>3</sup> /H)	Checking values (mm <sup>3</sup> /H)		
	n rpm	CRT mm	Mean value	Spread	Mean value
1. Basic setting	750	13	493 - 507	8	489 - 511
2. Basic setting	900	13	511 - 539	15	502 - 548
3. Basic setting	900	16	622 - 658	20	613 - 667
4. Basic setting	300	5	51 - 79	15	44 - 86
5. Del.qty. profile					
6. Del.qty. profile					
Drive 1 ↓	↑ 2	3	Fuel inlet 1		
8		4	Fuel outlet 2		
7	6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin					
Addit. work steps :		Projection of control rack on drive side when set to equal value A = approx. 39 mm			
		<ul style="list-style-type: none"> <li>- Enter measured value in test sheet</li> <li>- Enter projection when switched off (CRT = 0)</li> </ul>			





<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 400 365 818				
Pump:	FA-PE 8/10/150/100 RS 42	Customer: SACM				
Governor:		Engine: V 8 X - 1500				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applik.:				
Perm.pres.: 1.5 bar	NHA: 1 688 901 026	Press.l: (mm) 8 x 4 x 1500				
Perm.pos: PS	Open.p.: 220 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 9 413 369 310				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise	LPC 4.2 + 0.1 mm at CRT +0.5 mm u.CRT <sub>max</sub>	= 12 mm °CS				
Cylinder 1 on drive side						
Cam sequence: 1 - 2 - 6 - 3 - 4 - 5 - 7 - 8						
Cam spacing: 0 45 90 135 180 225 270 315		°CS				
FB mark : Cyl. no.	Tol.f.cam spacing: ± 0.15	°CS				
Delivery quantities	Setting values (mm <sup>3</sup> /H)				Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	14.5	684 - 692	10		
2. Basic setting	750	7.0	184 - 200	15		
3. Basic setting	300	6.0	65 - 79	15		
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 2 3 8 4 7 ↓ 6 ↑ 5					Fuel inlet 5 Fuel outlet 7	
Other test operations:	RWO = 14.5 mm full-load lockup RW = 0 = mechanical stop					
Addit. work steps :	Set cyl. 1 to LPC with dial gauge (inlet pressure ≈ 0.3 bar). The angular cam spacing is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward-delivery valve.					
	LPC at cyl. 1 stamped in housing.					
	Strobe flange: Settings see page 2.					
	Project drawing: A 406 080 020					

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 365 822					
Pump:	PE 8/10/150/100 LS 44	Customer: Deutz-MWM					
Governor:		Engine: TBD 604B V8					
Fuel-supply p:		Power : kw( Bhp )					
Injector:		Applik.: Lokom./Katamaran					
Perm pres : 1.5 bar	NHA: 1 688 901 029	Press.l: 1 680 750 027 (mm) 8 x 4 x 1500					
Perm.pos: PS	Open.p.: 220 + 3 bar	Test oil: ISO 4113					
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 9 413 369 310					
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		3.0+0.1 mm at CRT = > 17 mm +0.5 mm u.CRT <sub>max</sub> °CS =					
Cylinder 1 on drive side Cam sequence: 1 - 5 - 7 - 8 - 6 - 3 - 4 - 2 Cam spacing: 0 45 90 135 180 225 270 315		°CS					
FB mark : Cyl. no.		Tol.f.cam spacing: ± 0.15 °CS					
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)		
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread	
1. Basic setting	750	18.0	1010 – 1028	28			
2. Basic setting	750	7.0	230 – 250	28			
3. Basic setting	300	5.5	70 - 80	20			
4. Basic setting							
5. Del.qty. profile							
6. Del.qty. profile							
Drive	1 ↑	2	↓ 3		Fuel inlet 3		
	8		4		Fuel outlet 1		
	7	6	5				
Other test operations: CRT0 = defined by marking the control rack with a locating pin							
Addit. work steps :		LPC setting. Set cyl. 1 to LPC with dial gauge (inlet pressure ≈ 0.3 bar)					
		The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward – delivery valve.					

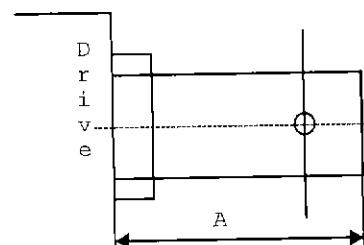
<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 365 823				
Pump:	PE 8/10/150/100 LS 45	Customer: Deutz-MWM Engine: TBD 604B V8				
Fuel-supply p:		Power : kw(      Bhp )				
Injector:		Applic.: Lokom./Katamaran				
Perm.pres.: 1.5 bar	NHA: 1 688 901 029	Press.l: 1 680 750 027				
Perm.pos: PS	Open.p.: 220 + 3 bar	(mm) 8 x 4 x 1500				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 9 413 369 310				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise	LPC	3.0 + 0.1 mm at CRT = > 17 mm +0.5 mm u.CRT <sub>max</sub> °CS =				
Cylinder 1 on drive side Cam sequence: 1 - 3 - 4 - 8 - 6 - 5 - 7 - 2 Cam spacing: 0 45 90 135 180 225 270 315 °CS FB mark : Cyl. no. Tol.f.cam spacing: ± 0.15 °CS						
Delivery quantities	Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)		
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	18.0	1010 - 1028	28		
2. Basic setting	750	7.0	230 - 250	28		
3. Basic setting	300	5.5	70 - 80	20		
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 ↑ 2 ↓ 3 8 4 7 6 5					Fuel inlet 3 Fuel outlet 1	
Other test operations:	CRT0 = defined by marking the control rack with a locating pin					
Addit. work steps :	LPC setting. Set cyl. 1 to LPC with dail gauge (inlet pressure ≈ 0.3 bar).					
	The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward - delivery valve.					

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 365 824				
Pump:	PE 8/10/150/100	Customer: Deutz-MWM				
Governor:		Engine: TBD 604B V8				
Fuel-supply p:		Power : 112 kw( Bhp 0 )				
Injector:		Applic.: Lokom./Katamaran				
Perm.pres.: 1.5 bar	NHA: 1 688 901 029	Press.l.: 1 680 750 027				
Perm.pos: PS	Open.p.: 220 + 3 bar	(mm) 8 x 4 x 1500				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Test oil: ISO 4113				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		Overflow valve: 9 413 369 310				
		= 20 mm +0.5 mm u.CRT <sub>max</sub> =				
Cylinder 1 on drive side Cam sequence: 1 - 5 - 4 - 2 - 6 - 3 - 7 - 8 Cam spacing: 0 45 90 135 180 225 270 315 FB mark : Cyl. no. _____ Tol.f.cam spacing: ± 0.15 °CS		°CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	18.0	1010 - 1028	28		
2. Basic setting	750	7.0	230 - 250	28		
3. Basic setting	300	5.5	70 - 80	20		
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↑      2      3 ↓				Fuel inlet 3	
	8		4		Fuel outlet 1	
	7	6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		LPC setting. Set cyl. 1 to LPC with dial gauge (inlet pressure ≈ 0.3 bar).				
		The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward - delivery valve.				

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values		Assembly no.: 9 410 365 825		
Pump:	PE 8/10/150/100 LS 47		Customer: Deutz-MWM		
Governor:			Engine: TBD 604B V8		
Fuel-supply p:			Power : kw( Bhp )		
Injector:			Applic.: Lokom./Katamaran		
Perm.pres.: 1.5 bar	NHA: 1 688 901 029	Press.l: 1 680 750 027	Test oil:		
Perm.pos: PS	Open.p.: 220 + 3 bar	(mm) 8 x 4 x 1500	ISO 4113		
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 9 413 369 310	40 +5° C		
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		3.0 + 0.1 mm at CRT +0.5 mm u.CRT <sub>max</sub>	= 12 mm °CS		
Cylinder 1 on drive side Cam sequence: 1 - 5 - 7 - 8 - 6 - 3 - 4 - 2 Cam spacing: 0 45 90 135 180 225 270 315 FB mark : Cyl. no. Tol.f.cam spacing: ± 0.15 °CS					
Delivery quantities		Setting values (mm <sup>3</sup> /H)		Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value
1. Basic setting	750	18.0	1010 - 1028	28	
2. Basic setting	750	7.0	230 - 250	28	
3. Basic setting	300	5.5	70 - 80	20	
4. Basic setting					
5. Del.qty. profile					
6. Del.qty. profile					
Drive	1 ↑	2	↓3	4	Fuel inlet 3 Fuel outlet 1
	8		6	5	
Other test operations: CRT0 = defined by marking the control rack with a locating pin					
Addit. work steps :		LPC setting. Set cyl. 1 to LPC with dial gauge (inlet pressure ≈ 0-3 bar).			
		The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward - delivery valve.			

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 365 826				
Pump:	PE 8/10/150/100 LS 48	Customer: Deutz-MWM				
Governor:		Engine: TBD 604B V8				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applik.: Lokom./Katamaran				
Perm.pres..	1.5 bar	NHA: 1 688 901 029				
Perm.pos:	PS	Open.p.: 220 + 3 bar				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Press.l: 1 680 750 027 (mm) 8 x 4 x 1500				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise	LPC	Test oil: ISO 4113				
Cylinder 1 on drive side	3.0 + 0.1 mm at CRT + 0.5 mm u.CRT <sub>max</sub>	= 12 mm °CS				
Cam sequence: 1 - 3 - 4 - 8 - 6 - 5 - 7 - 2						
Cam spacing: 0 45 90 135 180 225 270 315		°CS				
FB mark : Cyl. no.	Tol.f.cam spacing: ± 0.15	°CS				
Delivery quantities	Setting values (mm <sup>3</sup> /H)				Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	18.0	1010 - 1028	28		
2. Basic setting	750	7.0	230 - 250	28		
3. Basic setting	300	5.5	70 - 80	20		
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 ↑ 2 ↓ 3					Fuel inlet 3	
8	7	6	5	4	Fuel outlet 1	
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :	LPC setting. Set cyl. 1 to LPC with dial gauge (inlet pressure ≈ 0.3 bar).					
	The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward - delivery valve.					

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 365 827				
Pump:	PE 8/10/150/100 LS 49	Customer: Deutz-MWM				
Governor:		Engine: TBD 604B V8				
Fuel-supply p:		Power : kw( Bhp )				
Injector:		Applic.: Lokom./Katamaran				
Perm pres.: 1.5 bar	NHA: 1 688 901 029	Press.l: 1 680 750 027 (mm) 8 x 4 x 1500				
Perm.pos: PS	Open.p.: 220 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 9 413 369 310				
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		3.0 + 0.1 mm at CRT = 12 mm +0.5 mm u.CRT <sub>max</sub> °CS =				
Cylinder 1 on drive side Cam sequence: 1 - 5 - 4 - 2 - 6 - 3 - 7 - 8 Cam spacing: 0 45 90 135 180 225 270 315 °CS FB mark : Cyl. no. Tol.f.cam spacing: ± 0.15 °CS						
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	18:0	1010 – 1028	28		
2. Basic setting	750	7.0	Measure			
3. Basic setting	300	5:5	Measure			
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						
Drive	1 ↑	2	↓ 3		Fuel inlet 3	
	8		4		Fuel outlet 1	
	7	6	5			
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		LPC setting. Set cyl. 1 to LPC with dial gauge (inlet pressure ≈ 0.3 bar).				
		The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward – delivery valve.				

 <b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values		Assembly no.: 9 410 365 828			
Pump:	PE 8/10/150/100 LS 50		Customer: Deutz-MWM			
Governor:			Engine: TBD 620 V16			
Fuel-supply p:			Power : 224 kw( Bhp 0 )			
Injector:			Applic.: Lokom./Katamaran			
Perm pres : 1.5 bar	NHA: 1 688 901 029	Press.l: 1 680 750 027	Test oil:			
Perm.pos: PS	Open.p.: 220 + 3 bar	(mm) 8 x 4 x 1500	ISO 4113			
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 9 413 369 310	40 +5° C			
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise		LPC 3.0 + 0.1 mm at CRT = > 17 mm +0.5 mm u.CRT <sub>max</sub> °CS =				
Cylinder 1 on drive side Cam sequence: 1 - 8 - 7 - 4 - 5 - 2 - 6 - 3 Cam spacing: 0 67.5 180 205.5 225 247.5 292.5 315 °CS FB mark : Cyl. no. Tol.f.cam spacing: ± 0.15 °CS						
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	18.0	1010 - 1028	28		
2. Basic setting	750	7.0	230 - 250	28		
3. Basic setting	300	5.5	70 - 80	20		
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 ↑	2	↓ 3		Fuel inlet 3		
8		4		Fuel outlet 1		
7	6	5				
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :		LPC setting. Set cyl. 1 to LPC with dial gauge (inlet pressure ≈ 0.3 bar).				
		The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward – delivery valve.				

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410 365 829				
Pump:	PE 8/10/150/100 LS 51	Customer: Deutz-MWM				
Governor:		Engine: TBD 620 V16				
Fuel-supply p:		Power : 224 kw( Bhp 0 )				
Injector:		Applic.: Lokom./Katamaran				
Perm.pres.: 1.5 bar	NHA: 1 688 901 029	Press.l.: 1 680 750 027				
Perm.pos: PS	Open.p.: 220 + 3 bar	(mm) 8 x 4 x 1500				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Test oil: ISO 4113				
Test pump as per AP		LPC 3.0 + 0.1 mm at CRT = > 17 mm				
DOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub> °CS				
Cylinder 1 on drive side		=				
Cam sequence: 1 - 8 - 3 - 6 - 5 - 7 - 2 - 4						
Cam spacing: 0 22.5 45 157.5 225 270 292.5 337.5		°CS				
FB mark : Cyl. no.	Tol.f.cam spacing: ± 0.15	°CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	18.0	1010 - 1028	28		
2. Basic setting	750	7.0	230 - 250	28		
3. Basic setting	300	5.5	70 - 80	20		
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 ↑ 2 ↓ 3					Fuel inlet 3	
8	7	6	5	4	Fuel outlet 1	
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :	LPC setting. Set cyl. 1 to LPC with dial gauge (inlet pressure ≈ 0.3 bar).					
	The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward - delivery valve.					



## IN-LINE INJECTION PUMPS

Testing and setting values

Assembly no.:

9 410 365 831

Pump: PE 8/10/150/100 LS 52

Customer: Deutz-MWM

Governor:

Engine: TBD 620 V16

Fuel-supply p:

Power : 224 kw( Bhp  
0 )

Injector:

Applic.: Lokom./Katamaran

Perm.pres.: 1.5 bar NHA: 1 688 901 029

Press.l: 1 680 750 027

Test oil:

Perm.pos: PS Open.p.: 220 + 3 bar

(mm) 8 x 4 x 1500

ISO 4113

When control rack on rear of pump:

Overflow valve:  
9 413 369 310

40 +5° C

P.S. 1 left, P.S. 2 right

Test pump as per AP LPC 3.0 + 0.1 mm at CRT = 12 mm  
GOR clock looking at drive/SD diff. betw. CRT = +0.5 mm u.CRT<sub>max</sub> °CS  
wise =

Cylinder 1 on drive side

Cam sequence: 1 - 8 - 7 - 4 - 5 - 2 - 6 - 3

Cam spacing: 0 67.5 18 205.5 225 247.5 292.5 315 °CS

FB mark : Cyl. no. Tol.f.cam spacing: ± 0.15 °CS

Testoil-ISO 4113

	Delivery quantities		Setting values (mm <sup>3</sup> /H)		Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1.	Basic setting	750	18.0	1010 - 1028	28	
2.	Basic setting	750	7.0	230 - 250	28	
3.	Basic setting	300	5.5	70 - 80	20	
4.	Basic setting					
5.	Del.qty. profile					
6.	Del.qty. profile					

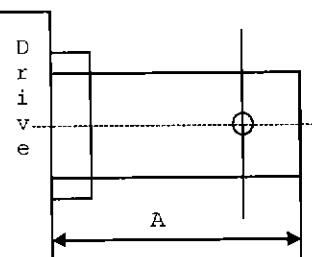
Drive 1 ↑ 2 ↓ 3 Fuel inlet 3  
 8 [ ] 4 Fuel outlet 1  
 7 6 5

Other test operations: CRT0 = defined by marking the control rack with a locating pin

Addit. work steps :

LPC setting.

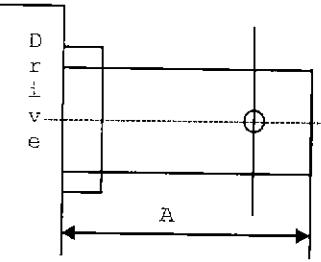
Set cyl. 1 to LPC with dial gauge (inlet pressure ≈ 0.3 bar).



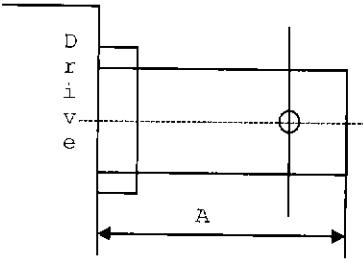
The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward - delivery valve.

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values	Assembly no.: 9 410365 832				
Pump:	PE 8/10/150/100 LS 53	Customer: Deutz-MWM				
Governor:		Engine: TBD 620 V16				
Fuel-supply p:		Power : 224 kw( Bhp 0 )				
Injector:		Applik.: Lokom./Katamaran				
Perm.pres : 1.5 bar	NHA: 1 688 901 029	Press.l: 1 680 750 027				
Perm.pos: PS	Open.p.: 220 + 3 bar	(mm) 8 x 4 x 1500				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 9 413 369 310				
		Test oil: ISO 4113				
Test pump as per AP	LPC	3.0 + 0.1 mm at CRT = 12 mm				
GOR clock looking at drive/SD diff. betw. CRT = wise		+0.5 mm u.CRT <sub>max</sub> °CS				
Cylinder 1 on drive side		=				
Cam sequence: 1 - 8 - 3 - 6 - 5 - 7 - 2 - 4						
Cam spacing: 0 22.5 45 157.5 225 270 292.5 337.5		°CS				
FB mark : Cyl. no.	Tol.f.cam spacing:± 0.15	°CS				
Delivery quantities	Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)		
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread
1. Basic setting	750	18.0	1010 – 1028	28		
2. Basic setting	750	7.0	230 – 250	28		
3. Basic setting	300	5.5	70 – 80	20		
4. Basic setting						
5. Del.qty. profile						
6. Del.qty. profile						
Drive 1 ↑ 2 ↓ 3				Fuel inlet 3		
8	4			Fuel outlet 1		
7	6	5				
Other test operations: CRT0 = defined by marking the control rack with a locating pin						
Addit. work steps :	LPC setting. Set cyl 1 to LPC with dial gauge (inlet pressure ≈ 0.3 bar).					
	The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward – delivery valve.					

<b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values		Assembly no.: 9 410 365 018				
Pump:	PE 12/10/150/100 LS 54		Customer: Deutz-MWM				
Governor:			Engine: TBD 620 V12				
Fuel-supply p:			Power : kw( Bhp )				
Injector:			Applik.: Lokmo./Katamaran				
Perm pres.	1.5 bar	NHA: 1 688 901 029	Press.l: 1 680 750 027 (mm) 8 x 4 x 1500				
Perm.pos:	PS	Open.p.: 220 + 3 bar	Test oil: ISO 4113				
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 9 413 369 310	40 +5° C				
Test pump as per AP		LPC 3.0 + 0.1 mm at CRT = > 17 mm					
GOR clock	looking at drive/SD diff. betw. CRT = wise	+0.5 mm u.CRT <sub>max</sub>	°CS				
Cylinder 1 on drive side		=					
Cam sequence: 1 - 12 - 8 - 5 - 3 - 10 - 9 - 4 - 2 - 11 - 7 - 6							
Cam spacing: 0 45 60 105 120 165 180 225 240 285 300 345			°CS				
FB mark :	Cyl. no.	Tol.f.cam spacing: ± 0.5	°CS				
Delivery quantities		Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)		
	n rpm	CRT mm	Mean value	Spread	Mean value	Spread	
1. Basic setting	750	18.0	1010 – 1028	28			
2. Basic setting	750	7.0	230 – 250	28			
3. Basic setting	300	5.5	70 – 80	20			
4. Basic setting							
5. Del.qty. profile							
6. Del.qty. profile							
Drive	1 ↑	2	↓ 3		Fuel inlet 3		
8	4				Fuel outlet 1		
7	6	5					
Other test operations: CRT0 = defined by marking the control rack with a locating pin							
Addit. work steps :		LPC setting. Set cyl. 1 to LPC with dial gauge (inlet pressure ≈ 0.3 bar).					
D r i v e	A	The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward – delivery valve.					



The angular cam is set with inlet pressure  $\approx 0.3$  bar and delivery valve screwed in, without forward – delivery valve.

 <b>BOSCH</b>	<b>IN-LINE INJECTION PUMPS</b> Testing and setting values		Assembly no.: 9 410 365 019		
Pump:	PE 12/10/150/100 LS 55	Customer:	DeUTZ-MWM		
Governor:		Engine:	TBD 620 V12		
Fuel-supply p:		Power :	kw( Bhp )		
Injector:		Applik.:	Lokom./Katamaran		
Perm.pres.: 1.5 bar	NHA: 1 688 901 029	Press.l.: 1 680 750 027	Test oil:		
Perm.pos: PS	Open.p.: 220 + 3 bar	(mm) 8 x 4 x 1500	ISO 4113		
When control rack on rear of pump: P.S. 1 left, P.S. 2 right		Overflow valve: 9 413 369 310	40 +5°C		
Test pump as per AP DOR clock looking at drive/SD diff. betw. CRT = wise	LPC	3.0 + 0.1 mm at CRT +0.5 mm u.CRT <sub>max</sub>	= 12 mm °CS		
Cylinder 1 on drive side					
Cam sequence: 1 - 12 - 8 - 5 - 3 - 10 - 9 - 4 - 2 - 11 - 7 - 6					
Cam spacing: 0 45 60 105 120 165 180 225 240 285 300 345			°CS		
FB mark : Cyl. no.		Tol.f.cam spacing: ± 0.15	°CS		
Delivery quantities	Setting values (mm <sup>3</sup> /H)			Checking values (mm <sup>3</sup> /H)	
	n rpm	CRT mm	Mean value	Spread	Mean value
1. Basic setting	750	18.0	1010 - 1028	28	
2. Basic setting	750	7.0	230 - 250	28	
3. Basic setting	300	5.5	70 - 80	20	
4. Basic setting					
5. Del.qty. profile					
6. Del.qty. profile					
Drive 1 ↑ 2 ↓ 3 8 4 7 6 5	Fuel inlet 3 Fuel outlet 1				
Other test operations: CRT0 = defined by marking the control rack with a locating pin					
Addit. work steps :	LPC setting. Set cyl. 1 to LPC with dial gauge (inlet pressure ≈ 0.3 bar).				
	The angular cam is set with inlet pressure ≈ 0.3 bar and delivery valve screwed in, without forward - delivery valve.				

## Inhaltsverzeichnis

<u>Einspritzpumpe</u>	<u>Position</u>	<u>Komb.Nr.</u>
FA-PE 6/9M/170/300/3 S 7	B6	9 400 361 604
FA-PE 6/9M/170/700/3 S 2	B1	9 400 361 601
FA-PE 6/9M/170/700/3 S 3	B2	9 400 361 602
FA-PE 6/9M/170/700/3 S 6	B5	9 400 361 603
FA-PE 6/9M/180/300/3 S 28	C3	9 400 361 606
FA-PE 6/9M/180/700/3/S 27	C2	9 400 361 605
FA-PE 6/10/150/300/3 LS 11	B10	9 400 365 602
FA-PE 6/10/150/300/3 LS 13	B12	9 400 365 603
FA-PE 6/10/150/100 LS 17	B16	9 410 365 605
FA-PE 6/10/150/100 LS 17-1	A3	9 400 365 608
FA-PE 6/10/150/100 LS 18	B17	9 410 365 606
FA-PE 6/10/150/100 LS 18-1	A4	9 400 365 609
FA-PE 6/10/150/300 RS 10	B9	9 400 365 601
FA-PE 6/10/150/300 RS 15	B14	9 400 365 604
FA-PE 6/10/150/300 RS 15-1	A1	9 400 365 607
FA-PE 6/10/160/300 RS 31	A17	9 400 365 811
FA-PE 6/10/160/300 RS 34	A14	9 400 365 612
FA-PE 6/10/160/300 RS 38	A6	9 400 365 613
FA-PE 8/9M/180/100/S 24	B23	9 400 361 805
FA-PE 8/9M/180/100/S 25	B24	9 400 361 806
FA-PE 8/9M/170/900/6 S 4	B3	9 400 361 801
FA-PE 8/9M/170/500/6 S 5	BA	
FA-PE 8/9M/170/500/6 S 9	B8	9 400 361 804
FA-PE 8/9M/170/900/6 S 8	B7	9 400 361 803
FA-PE 8/10/150/100 LS 12	B11	9 410 365 801
FA-PE 8/10/150/100/LS 14	B13	9 410 365 802
FA-PE 8/10/150/100 LS 20	B18	9 400 365 804
FA-PE 8/10/150/100 LS 20-1	A22	9 400 365 807
FA-PE 8/10/150/100 LS 20-1	A21	9 400 365 808
FA-PE 8/10/150/100 LS 21	B20	9 410 365 805
FA-PE 8/10/150/100 LS 36	A12	9 400 365 814
FA-PE 8/10/160/900 LS 39	A5	9 400 365 815
FA-PE 8/10/150/900/4 LS 19	B18	9 410 365 803
FA-PE 8/10/150/900 4 LS 26	C1	9 410 365 809
FA-PE 8/10/150/900 4 LS 26-1	A20	9 410 365 809
FA-PE 8/10/160/900 4 LS 30	A18	9 400 365 811
FA-PE 8/10/160/900/4 LS 33	A15	9 400 365 812
FA-PE 8/10/160/100 LS 35	A13	9 400 365 813
FA-PE 8/10/160/100 LS 40	A10	9 400 365 816
FA-PE 8/10/160/100 LS 41	A9	9 400 365 817
FA-PE 8/10/150/100 RS 42	C4	9 400 365 818
FA-PE 10/9M/180/100/S 22	B21	9 410 361 001
FA-PE 10/9M/180/100/S 23	B22	9 410 361 002
FA-PE 12/10/150/900 LS 16-1	A2	9 410 365 012
FA-PE 12/10/150/900/6 LS 16	B15	9 410 365 010
FA-PE 12/10/160/100 LS 37	A11	9 400 365 015
FA-PE 12/10/160/100 LS 43	A7	9 400 365 017
FA-PE 12/10/160/900 LS 29	A19	9 400 365 013
FA-PE 12/10/160/300 LS 32	A16	9 400 365 014
FA-PE 12/10/160/900 LS 42	A8	9 400 365 016
PE 8/10/150/100 LS 43	C10	9 410 365 827
PE 8/10/150/100 LS 44	C5	9 410 365 822
PE 8/10/150/100 LS 45	C6	9 410 365 823
PE 8/10/150/100 LS 46	C7	9 410 365 824
PE 8/10/150/100 LS 47	C8	9 410 365 825

PE 8/10/150/100 LS 48	C9	9 410 365 826
PE 8/10/150/100 LS 50	C11	9 410 365 828
PE 8/10/150/100 LS 51	C12	9 410 365 829
PE 8/10/150/100 LS 52	C13	9 410 365 831
PE 8/10/150/100 LS 53	C14	9 410 365 832
PE 12/10/150/100 LS 54	C15	9 410 365 018
PE 12/10/150/100 LS 55	C16	9 410 365 019